

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
110129.416

APPLICATION NO.

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS  
John Jackson et al.FILING DATE  
October 28, 1998

GROUP ART UNIT



## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Jf	AA	4,826,945	05/02/89	Cohn et al.	528	76	
	AB	5,167,649	12/01/92	Zook	604	307	
	AC	5,278,201	01/11/94	Dunn et al.	523	113	
	AD	5,324,519	06/28/94	Dunn et al.	424	426	
	AE	5,340,849	08/23/94	Dunn et al.	523	113	
	AF	5,384,333	01/24/95	Davis and Cousins	514	772.3	
	AG	5,476,909	12/19/95	Kim and Song	525	408	
	AH	5,525,702	06/11/96	Nace	528	354	
	AI	5,599,552	02/04/97	Dunn et al.	424	423	
	AJ	5,626,863	05/06/97	Hubbell et al.	424	426	
	AK	5,665,428	09/09/97	Cha et al.	427	213.3	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
Jf	AL	WO 94/11411	05/26/94	PCT				
	AM	WO 95/18603	07/13/95	PCT				
	AN	WO 96/14806	05/23/96	PCT				
	AO	CA 2,138,474	06/20/96	Canada				
	AP	WO 97/15287	05/01/97	PCT				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Jf	AR	Cerrai et al., "Block copolymers of L-lactide and poly(ethylene glycol) for biomedical applications," <i>Journal Of Materials Science: Materials In Medicine</i> 5: 308-313, 1994.
	AS	Hu and Liu, "Effect of soft segment on degradation kinetics in polyethylene glycol/poly(L-lactide) block copolymers," <i>Polymer Bulletin</i> 30: 669-676, 1993.
	AT	Kimura et al., "Preparation of block copoly(ester-ether) comprising poly(L-lactide) and poly(oxypropylene) and degradation of its fibre <i>in vitro</i> and <i>in vivo</i> ," <i>Polymer</i> 30: 1342-1349, 1989.

EXAMINER

DATE CONSIDERED

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FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 110129.416	APPLICATION NO.
<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)		APPLICANTS John Jackson et al.	
		FILING DATE October 28, 1998	GROUP ART UNIT

JCL35 U.S. PTO  
09/18/98  
10/28/98

## U.S. PATENT DOCUMENTS


*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
aj	AA	5,667,809	09/16/97	Trevino et al.	424	501	
z	AB	5,702,717	12/30/97	Cha et al.	424	425	
	AC						
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
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## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

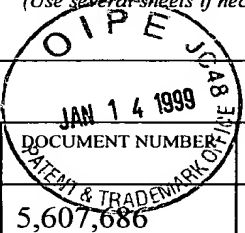
aj	AR	Peracchia et al., "PEG-coated nanospheres from amphiphilic diblock and multiblock copolymers: Investigation of their drug encapsulation and release characteristics," <i>Journal of Controlled Release</i> 46: 223-231, 1997.
1	AS	Shah et al., "Poly-DL-lactic acid: Polyethylene glycol block copolymers. The influence of polyethylene glycol on the degradation of poly-DL-lactic acid," <i>Journal of Biomaterials Science, Polymer Edition</i> 5(5): 421-431, 1994.
7	AT	Zhu et al., "Preparation, Characterization, and Properties of Polylactide (PLA)-Poly(ethylene Glycol) (PEG) Copolymers: A Potential Drug Carrier," <i>Journal of Applied Polymer Science</i> 39: 1-9, 1990.

EXAMINER 	DATE CONSIDERED 2/01
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FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 110129.416		APPLICATION NO. 09/181,582	
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>				APPLICANTS John Jackson et al.			
				FILING DATE October 28, 1998		GROUP ART UNIT 1615	

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	AA	5,607,686	03/04/97	Totakura and Shalaby	424	426	
	AB						
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FOREIGN PATENT DOCUMENTS					
DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
110129.416APPLICATION NO.  
09/181,582

**SECOND SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

(Include copies of all sheets if necessary)

APPLICANTS  
John Jackson et al.FILING DATE  
October 28, 1998GROUP ART UNIT  
1617**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
af	AA	5,352,515	10/04/94	Jarrett et al.	428	357	
s	AB	4,938,763	07/03/90	Dunn et al.	604	891.1	
g	AC	4,438,253	03/20/84	Casey et al.	528	86	
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
sh	AL	EP 737 703 A2	10/16/96	EPO	—	—		
	AM	EP 241 178 A1	10/14/87	EPO				
	AN	EP 539 741 A1	05/05/93	EPO	1	1		
	AO	EP 537 559 A1	04/21/93	EPO	—	—		
g	AP	WO 90/03768	04/19/90	PCT	—	—		

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

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<b>THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>				APPLICANTS John Jackson et al.		RECEIVED NOV 09 2000 TESS CENTER 1600 2200		
				FILING DATE October 28, 1998				GROUP ART UNIT 1617
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
	AA	4,526,938	07/02/85	Churchill et al.	525	415		
	AB	4,942,035	07/17/90	Churchill et al.	424	423		
	AC	5,384,333	01/24/95	Davis et al.	514	772.3		
	AD	5,522,842	06/04/96	Shalaby	606	230		
	AE	5,612,052	03/18/97	Shalaby	424	426		
	AF	5,714,159	02/03/98	Shalaby	424	426		
	AG	5,773,563	06/30/98	Shalaby	528	354		
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AJ	EP 092 918 A2	11/02/83	EPO	—	—		
	AK	EP 092 918 B1	10/19/88	EPO	1	1		
	AL	EP 166 596 A2	01/02/86	EPO	1	1		
	AM	EP 166 596 B1	03/13/91	EPO	1	1		
	AN	EP 552 802 A2	07/28/93	EPO	1	1		
	AO	WO 95/03357	02/02/95	PCT	1	1		
	AP	WO 97/10849	03/27/97	PCT	—	—		
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>								
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	AR							
	AS							
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		FILING DATE OCTOBER 28, 1998	GROUP ART UNIT 1617

## U.S. PATENT DOCUMENTS

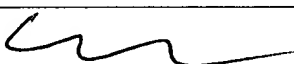
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
W	AA	5,548,035	08/20/96	Kim et al.	525	408	
	AB	5,525,702	06/11/96	Nace	528	354	
	AC	5,490,978	02/13/96	Spaltro et al.	424	49	
	AD	5,278,202	01/11/94	Dunn et al.	523	113	
	AE	4,942,035	07/17/90	Churchill et al.	424	423	
	AF	4,882,168	11/21/89	Casey et al.	424	468	
	AG	4,716,203	12/29/87	Casey et al.	525	408	
	AH	4,526,938	07/02/85	Churchill et al.	525	415	
W	AI	4,452,973	06/05/84	Casey et al.	528	354	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AJ							
	AK							

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

W	AL	Bei et al., "Polycaprolactone-Poly (Ethylene Glycol) Block Copolymer III Drug Release Behavior," <i>Chinese J. of Polymer Sci.</i> 13(2): 154-161, 1995.
I	AM	Cohn and Younes, "Biodegradable PEO/PLA block copolymers," <i>J. of Biomed. Mat. Res.</i> , Vol. 22, 993-1009 (1988)
I	AN	Cohn and Younes, "Compositional and Structural Analysis of PELA Biodegradable Block Copolymers Degrading Under <i>In Vitro</i> Conditions," <i>Biomaterials</i> , Vol. 10, 466-474 (Sep. 1989)
W	AO	Deng et al., "Studies on the Block Copolymerization of D,L-Lactide and Poly(ethylene glycol) with Aluminum Complex Catalyst," <i>J. of Applied Polymer Sci.</i> , Vol. 55, 1193-1196 (1995)
	AP	<del>Deng et al., "Synthesis and Characterization of Block Copolymers from D,L-Lactide and Poly(Ethylene Glycol) with Stannous Chloride," <i>J. of Polymer Sci.: Part C: Polymer Letters</i>, Vol. 28, 411-416 (1990)</del>
W	AQ	Gan et al., "Poly(ε-Caprolactone)/Poly(Ethylene Oxide) Diblock Copolymer II. Nonisothermal Crystallization and Melting Behavior," <i>J. of Appl. Polym. Sci.</i> , 1793-1804 (1997)
W	AR	Lyatskaya and Birshtein, "Triblock Copolymers: the Role of Interfacial Tension Coefficients at Two Interfaces," <i>Polymer</i> , Vol. 36, No. 5, 975-980 (1995)

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**THIRD SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT**

(Use several sheets if necessary)

APPLICANTS  
John Jackson et al.FILING DATE  
OCTOBER 28, 1999GROUP ART UNIT  
1617

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**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

as	BA	Martini et al., "The Bioadhesive Properties of a Triblock Copolymer of $\epsilon$ -Caprolactone and Ethylene Oxide," <i>Intl. J. of Pharmaceutics</i> , Vol. 113, 223-229 (1995)
	BB	Martini et al., "The Release of 5-Fluorouracil from a Swellable Matrix of a Triblock Copolymer of $\epsilon$ -Caprolactone and Ethylene Oxide," <i>Pharmaceutical Research</i> , Vol.12, No.11, 1786-1790 (1995)
	BC	Moghimi et al., "Surface Engineered Nanospheres with Enhanced Drainage into Lymphatics and Uptake by Macrophages of the Regional Lymph Nodes," <i>FEBS Letters</i> 344, 25-30 (1994)
	BD	Nojima et al., "Crystallization of Block Copolymers II. Morphological Study of Poly(ethylene glycol)-Poly( $\epsilon$ -caprolactone) Block Copolymers," <i>Polymer J.</i> , Vol.24, No.11, 1271-1280 (1992)
	BE	Pechar et al., "Biodegradable Drug Carriers Based on Poly(ethylene glycol) Block Copolymers," <i>Macromol. Chem. Phys</i> 198:1009-1020 (1997)
	BF	Peracchia et al., "PEG-Coated Nanospheres from Amphiphilic Diblock and Multiblock Copolymers: Investigation of Their Drug Encapsulation and Release Characteristics" <i>J. Controlled Release</i> 46: 223-231, 1997.
cy	BG	Wang and Qui., "Polycaprolactone-Poly(ethylene glycol) Block Copolymer, I: Synthesis and Degradability <i>In Vitro</i> ," <i>Polymers for Adv. Tech.</i> , Vol.4 ,363-366 (1992)
	BH	<del>Youxin et al., "In-Vitro Degradation and Bovine Serum Albumin Release of the ABA Triblock Copolymers Consisting of Poly(L+)Lactic Acid), or Poly(L+)Lactic Acid-Co-Glycolic Acid) A-blocks Attached to Central Polyoxyethylene B-blocks," <i>J. of Controlled Release</i> 32:121-128 (1994)</del>
any	BI	Zhang et al., "Development of Biodegradable Polymeric Paste Formulations for Taxol: An <i>In Vitro</i> and <i>In Vivo</i> Study," <i>Intl. J. of Pharm.</i> , Vol. 137, 199-208 (1996)
m	BJ	Zhu et al., "'Super Microcapsules' (SMC). I. Preparation and Characterization of Star Polyethylene Oxide (PEO)-Polylactide (PLA) Copolymers," <i>Journal of Polymer Science: Part A: Polymer Chemistry</i> , Vol. 27, 2151-2159 (1989)

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